

Contents—Volume 25, 1992

Number 1, July 1992

Current Microbiology

© Springer-Verlag New York Inc. 1992

Fate of Starch-Containing Plastic Films Exposed in Aquatic Habitats S.H. Imam, J.M. Gould, S.H. Gordon, M.P. Kinney, A.M. Ramsey, and T.R. Tosteson.....	1
Demonstration of Exopolysaccharide Production by Enterohemorrhagic <i>Escherichia coli</i> Alan D. Junkins and Michael P. Doyle.....	9
Comparison of Culture Methods and an Immunofluorescence Assay for the Detection of <i>Legionella pneumophila</i> in Domestic Hot Water Devices Michel Alary and Jean R. Joly	19
High-Frequency Electroporation and Maintenance of pUC- and pBR-Based Cloning Vectors in <i>Pseudomonas stutzeri</i> John M. Pemberton and Robert J. Penfold	25
A Method for Radioprotective Effect Evaluation Galina I. Lazarova and Dobromir V. Palazov.....	31
Kinetics of Spore Coat Protein Synthesis by <i>Clostridium perfringens</i> Type A Sangryeo Ryu and Ronald G. Labbe	35
Characterization of <i>Zymomonas mobilis</i> Alkaline Phosphatase Activity in <i>Escherichia coli</i> T. Karunakaran and P. Gunasekaran	41
Pyruvate Is Transported by a Proton Symport in <i>Lactobacillus plantarum</i> 8014 Jya-Li Tsau, Arthur A. Guffanti, and Thomas J. Montville	47
Phase Variations in <i>Bifidobacterium animalis</i> Bruno Biavati, Franca Crociani, Paola Mattarelli, and Vittorio Scardovi.....	51
Change of Speciation of Cu(II) in Growth Medium Due to Uptake of Ammonia by <i>Pseudomonas testosteronei</i> During Growth Azlina Ahmad, Martin N. Hughes, Ali M. Nobar, and Robert K. Poole	57

Number 2, August 1992

Anoxygenic Degradation of Aromatic Substances by <i>Rhodopseudomonas palustris</i> P. Khanna, B. Rajkumar, and N. Jothikumar	63
Biochemical Characterization of Glutamine Synthetase from the Diazotrophic Cyanobacterium, <i>Anabaena doliolum</i> P.S. Bisen and S. Shanthi	69
Sensitization of Oral Bacteria to Killing by Low-Power Laser Radiation Michael Wilson, John Dobson, and Wilson Harvey	77
Comparative Studies on the Photoproduction of Nonhydrogenous Resources by Cyanobacteria N. Erdmann, E. Zuther, and S. Abarza	83
The Effects of Purified 25-kDa Lipase from a Clinical Isolate of <i>Pseudomonas cepacia</i> in the Lungs of Rats Miriam K. Lonon, D.E. Woods, and D.C. Straus	89
Correlation Between the Virulence of <i>Francisella tularensis</i> in Experimental Mice and Its Acriflavine Reaction Tadashi Sato, Hiromi Fujita, Yoshiro Ohara, and Morio Homma	95
Electrophoretic Analysis of Heterogeneous Lipopolysaccharides from Various Strains of <i>Vibrio vulnificus</i> Biotypes 1 and 2 by Silver Staining and Immunoblotting Carmen Amaro, Elena G. Biosca, Belén Fouz, and Esperanza Garay	99
Characterization of 10 Mesophilic Cellulolytic Clostridia Isolated from a Municipal Solid Waste Digestor C. Cailliez, L. Benoit, J.-P. Thirion, and H. Petitdemange	105
Hemagglutination (Fimbriae) and Hydrophobicity in Adherence of <i>Serratia marcescens</i> to Urinary Tract Epithelium and Contact Lenses P.A. Parment, C. Svaborg-Ede'n, M.J. Chaknis, A.D. Sawant, L. Hagberg, L.A. Wilson, and D.G. Ahearn	113
The Eubacterial Endosymbionts of Whiteflies (Homoptera: Aleyrodoidea) Constitute a Lineage Distinct from the Endosymbionts of Aphids and Mealybugs Marta A. Clark, Linda Baumann, Mark A. Munson, Paul Baumann, Bruce C. Campbell, James E. Duffus, Lance S. Osborne, and Nancy A. Moran	119

Number 3, September 1992

Growth in Acidic Media Increases Production of Phosphatidylinositol-Specific Phospholipase C by <i>Staphylococcus aureus</i> Marisa B. Marques, Peter F. Weller, and Anne Nicholson-Weller	125
Detection of a Cytotoxic Substance Produced by the Cyanobacterium <i>Microcystis aeruginosa</i> Strain PCC 7806: Isolation and Differentiation from the Peptide Toxin Microcystin-LR by Cytotoxicity Assays K. Henning, H. Meyer, G. Kraatz-Wadsack, and J. Cremer	129
Characterization of Trans-Acting Regulatory Elements Affecting the Expression of Mn-Superoxide Dismutase (<i>sodA</i>) in <i>Escherichia coli</i> Mark D. Beaumont and Hosni M. Hassan	135
Degradation and Fermentation of Cellulose by the Rumen Anaerobic Fungi in Axenic Cultures or in Association with Cellulolytic Bacteria Annick Bernalier, Gérard Fonty, Frédérique Bonnemoy, and Philippe Gouet	143
Glycerol Inhibition of Growth and Dihydroxyacetone Production by <i>Gluconobacter oxydans</i> C. Claret, A. Bories, and P. Soucaille	149
Isolation and Characterization of a Marine Methanogenic Bacterium from the Biofilm of a Ship hull in Los Angeles Harbor R. Boopathy and L. Daniels	157
Cutinase Production by <i>Streptomyces</i> spp. William F. Fett, Hervé C. Gérard, Robert A. Moreau, Stanley F. Osman, and Love E. Jones	165
Hydrophobicity of Ruminant Mastitis <i>Staphylococcus aureus</i> in Relation to Bacterial Aging and Slime Production Rafael Baselga, Iñaki Albizu, José Rafael Penadés, Begoña Aguilar, María Iturrealde, and Beatriz Amorena	173

Number 4, October 1992

Stimulation of the Onset of Sporulation of <i>Clostridium perfringens</i> Type A by Netropsin and Distamycin Sangryeo Ryu and Ronald G. Labbe	183
Fermentation of Xylans by <i>Butyrivibrio fibrisolvens</i> and <i>Thermoanaerobacter</i> Strain B6A: Utilization of Uronic Acids and Xylanolytic Activities Robert B. Hespell	189
Effects of Glycerol on the Growth, Adhesion, and Cellulolytic Activity of Rumen Cellulolytic Bacteria and Anaerobic Fungi Valérie Roger, Gérard Fonty, Cécile André, and Philippe Gouet	197
Mycobacterial Growth and Ultrastructure in Mouse L-929 Fibroblasts and Bone Marrow-Derived Macrophages: Evidence That Infected Fibroblasts Secrete Mediators Capable of Modulating Bacterial Growth in Macrophages Nalin Rastogi, Valérie Labrousse, and Joao Paulo Carvalho de Sousa	203
Enterohemorrhagic <i>Escherichia coli</i> O157:H7 Possesses Somatic (O) Antigen Identical with That of <i>Salmonella</i> O30, Toshio Shimada, Yoshimasa Kosako, Yasunori Isshiki, and Kazuhito Hisatsune	215
Plasmid Instability in <i>Lactobacillus plantarum</i> Strain caTC2 R.P. Sinha	219
Binding of the Protoxin and Toxin Proteins of <i>Bacillus thuringiensis</i> subsp. <i>kurstaki</i> on Clay Minerals G. Venkateswarlu and G. Stotzky	225
Trinitrotoluene (TNT) as a Sole Nitrogen Source for a Sulfate-Reducing Bacterium <i>Desulfovibrio</i> sp (B Strain) Isolated from an Anaerobic Digester R. Boopathy and C.F. Kulpa	235

Number 5, November 1992

A 28-Kilodalton Fibronectin-Binding Protein of Group A Streptococci Harry S. Courtney, David L. Hasty, James B. Dale, and Thomas P. Poirier	245
Restriction Polymorphisms in the Internal Transcribed Spacers and 5.8S rDNA of <i>Saccharomyces</i> Francis I. Molina, Toru Inoue, and Shung-Chang Jong	251
Role of Nalidixic Acid in Isolation of <i>Salmonella typhimurium</i> Strains Capable of Growth at 48°C Mary L. Droffner and Nobuto Yamamoto	257

Purification and Characterization of an Aminopeptidase from <i>Streptococcus mitis</i> ATCC 903 Carita Andersson, Lars E. Linder, Marie-Louise Sund, and Helena Lönnies	261
High Flavin/Protein Ratio in the Symbiosome Space of Soybean Nodules Cornelia Fehling, Stefan Bassarab, and Dietrich Werner	269
The Synthesis of Cold Shock Proteins and Cold Acclimation Proteins in the Psychrophilic Bacterium <i>Aquaspirillum arcticum</i> Mark E. Roberts and William E. Inniss	275
Molecular Cloning and Expression of <i>Bacillus subtilis</i> <i>bglS</i> Gene in <i>Saccharomyces cerevisiae</i> Yongqing Chen, Xinqi Huang, Dixin Song, Fan Yang, and Weijun Zheng	279
Sequence Analysis of an Aphid Endosymbiont DNA Fragment Containing <i>rpoB</i> (β -Subunit of RNA Polymerase) and Portions of <i>rplL</i> and <i>rpoC</i> Marta A. Clark, Linda Baumann, and Paul Baumann	283
Cloning and Expression in <i>Escherichia coli</i> of an Alkaline Phosphatase (<i>phoA</i>) Gene from <i>Zymomonas mobilis</i> T. Karunakaran and P. Gunasekaran	291
Induction of Xylan-Degrading Enzymes in <i>Butyrivibrio fibrisolvens</i> Alan G. Williams and Susan E. Withers	297

Number 6, December 1992

Multilayer Adhesion to Filter Paper of Two Mesophilic, Cellulolytic Clostridia E. Gelhaye, B. Claude, C. Cailliez, S. Burle, and H. Petitedemange	307
Lysine Catabolism in <i>Streptomyces ambofaciens</i> Producer of Macrolide Antibiotic, Spiramycin Sophie Untrau, Ahmed Lebrihi, Pierre Germain, and Gérard Lefebvre	313
Ultrastructure of <i>Nosema marucae</i> sp. n. (Microspora, Nosematidae), a Pathogen of <i>Maruca testulalis</i> (Lepidoptera, Pyralidae) Maurice O. Odindo and Walter G.Z.O. Jura	319
The Effect of Ionophores on Proton Flux in the Ruminal Bacterium, <i>Streptococcus bovis</i> Hiroshi Kajikawa and J.B. Russell	327
Transformation of a Psychrotrophic Bacterium with a Plasmid from a Mesophile Lyle G. Whyte and William E. Inniss	331
Effect of Osmolarity and Dehydration on Alginate Production by Fluorescent Pseudomonads Shrikrishna Singh, Betty Koehler, and William F. Fett	335
Coexistence of Parental <i>Bacillus brevis</i> and Its Gramicidin S-Negative Mutant During Spore Germination Stages Dorothée Kuht and Arnold L. Demain	341
Isolation and Characterization of Siderophore, with Antimicrobial Activity, from <i>Azospirillum lipoferum</i> M Samir Shah, Vaidehi Karkhanis, and Anjana Desai	347
Physiological and Biochemical Characterization of Chlorate-Resistant Mutants of <i>Anabaena dolichum</i> P.S. Bisen and S. Shanthi	353